निर्यात के लिए नहीं NOT FOR EXPORT

OPEN SERIES MAP

No. E44L2

Scale 1:50,000

E44K13 (65J/13)	E44L1 (65N/1)	E44L5
Koraput ORISSA	2 Disputed	
E44K14 (65J/14)	E44L2 (65N/2)	E44L6 (65N/6) Visianagaram ANDHRA PRADESH
E44K15 (65J/15)	E44L3 (65N/3) Vishākhapatnam ANDHRA PRADESH	E44L7 (65N/7)

1 Rāyagarha, ORISSA.

भारतीय सर्वेक्षण विभाग SURVEY OF INDIA

1st Edition 2010.

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CONVENTIONAL SYMBOLS

Express highway: with toll; with bridge; with distance stone
Roads, metalled: according to importance
Roads, double carriageway: according to importance
Unmetalled road. Cart-track. Pack-track and pass. Foot-path
Streams: with track in bed; undefined. Canal
Dams: masonry or rock-filled; earthwork. Weir
River: dry with water channel; with island & rocks. Tidal river
Submerged rocks. Shoal. Swamp. Reeds
Wells: lined; unlined. Tube-well. Spring. Tanks: perennial; dry
Embankments: road or rail; tank. Broken ground
Railways, broad gauge: double; single with station; under constrn
Railways, other gauges: double; single with distance stone; do
Mineral line or tramway. Kiln. Cutting with tunnel
Contours with sub-features. Rocky slopes. Cliffs
Sand features: (1)flat,(2)sand-hills (permanent), (3)dunes(shifting)
Towns or Villages: inhabited; deserted. Fort
Huts: permanent; temporary. Tower. Antiquities
Temple. Chhatri. Church. Mosque. Idgāh. Tomb. Graves
Lighthouse. Lightship. Buoys: lighted; unlighted. Anchorage
Mine. Vine on trellis. Grass. Scrub
Palms: palmyra; other. Plantain. Conifer. Bamboo. Other trees
Areas: cultivated; wooded. Surveyed tree
Boundary, international
" state: demarcated; undemarcated
" district; subdivision, tahsil or taluk; forest
Boundary pillars: surveyed; unlocated;
Heights, triangulated: station; point; approximate
Bench-mark: geodetic; tertiary; canal
Post office. Telegraph office. Overhead tank
Rest house or inspection bungalow. Circuit house. Police station
Camping ground. Forest: reserved; protected
Spaced names: administrative; locality or tribal
Hospital. Dispensary. Veterinary. Hospital / Dispensary
Aerodrome. Helipad. Tourist site
Power line: with pylons surveyed; with poles unsurveyed

REFERENCE
NH 43 National Highway No. 43.

NOTES :-

Heights are in metres and above Indian mean sea level.
Contours are approximate.
A relative height ‹B› represents the approximate height, in metres, between the top and bottom of a steep slope.
The administrative boundaries in this sheet have been surveyed as pointed out by the local officials on the ground but have not been verified by the administrative authorities concerned.
Forest boundaries in this sheet, have been surveyed as pointed out by the local officials on the ground, but have not been verified by the Forest authorities concerned.
The triangulated heights and contours in this sheet have not been adjusted to heights of the spirit-levelled bench-marks and may not be strictly in accordance with them.

COMPILATION INDEX

A. Compiled from 1:25,000 survey 1977-78. Updated from satellite imagery IRS-P5 of 2009 in 2009-10.

Projection – UTM Datum – WGS 84

Magnetic Variation from True North about 1° West in 2005. (Annual change negligible).

1:50,000

500 m to 1 cm — 2 cm to 1 km

Metres 1000 500 0 1 2 3 Kilometres

CONTOUR INTERVAL 20 METRES

For further details about this map, please contact
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Orissa Geo-Spatial Data Centre
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Survey Bhawan, PO – R R Laboratory
Bhubaneshwar – 751013
Fax : 0674 – 2301418

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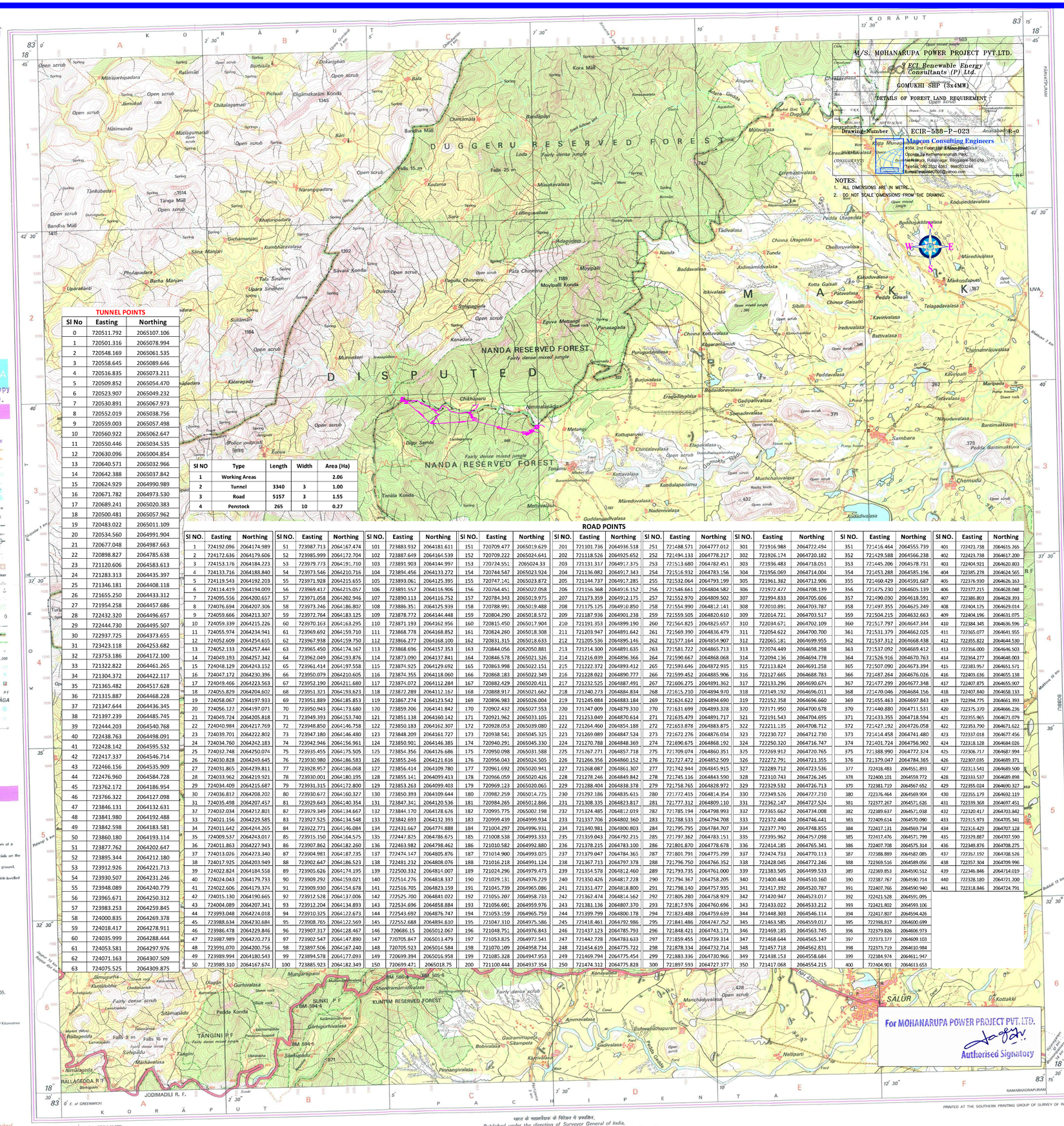

TUNNEL POINTS

Sl No	Easting	Northing
0	720511.792	2065107.106
1	720501.316	2065078.994
2	720548.169	2065061.535
3	720558.645	2065089.646
4	720516.835	2065073.211
5	720509.852	2065054.470
6	720523.907	2065049.232
7	720530.891	2065067.973
8	720552.019	2065038.756
9	720559.003	2065057.498
10	720560.922	2065062.647
11	720550.446	2065034.535
12	720630.096	2065004.854
13	720640.571	2065032.966
14	720642.388	2065037.842
15	720624.929	2064990.989
16	720671.782	2064973.530
17	720689.241	2065020.383
18	720500.481	2065057.962
19	720483.022	2065011.109
20	720534.560	2064991.904
21	720677.048	2064987.663
22	720898.827	2064785.638
23	721120.606	2064583.613
24	721283.313	2064435.397
25	721346.181	2064408.118
26	721655.250	2064433.312
27	721954.258	2064457.686
28	722432.320	2064496.657
29	722444.730	2064495.507
30	722937.725	2064373.655
31	723423.118	2064253.682
32	723753.186	2064172.100
33	721322.822	2064461.265
34	721304.372	2064422.117
35	721365.482	2064517.628
36	721315.887	2064468.228
37	721347.644	2064436.345
38	721397.239	2064485.745
39	722444.203	2064540.768
40	722438.763	2064498.091
41	722428.142	2064595.532
42	722417.337	2064546.714
43	722466.156	2064535.909
44	722476.960	2064584.728
45	723762.172	2064186.954
46	723766.322	2064127.098
47	723846.131	2064132.631
48	723841.980	2064192.488
49	723842.598	2064183.581
50	723860.180	2064193.114
51	723877.762	2064202.647
52	723895.344	2064212.180
53	723912.926	2064221.713
54	723930.507	2064231.246
55	723948.089	2064240.779
56	723965.671	2064250.312
57	723983.253	2064259.845
58	724000.835	2064269.378
59	724018.417	2064278.911
60	724035.999	2064288.444
61	724053.581	2064297.976
62	724071.163	2064307.509
63	724075.525	2064309.875

Sl NO	Type	Length	Width	Area (Ha)
1	Working Areas			2.06
2	Tunnel	3340	3	1.00
3	Road	5157	3	1.55
4	Penstock	265	10	0.27

ROAD POINTS

Sl NO.	Easting	Northing	Sl NO.	Easting	Northing	Sl NO.	Easting	Northing	Sl NO.	Easting	Northing	Sl NO.	Easting	Northing	Sl NO.	Easting	Northing	Sl NO.	Easting	Northing	Sl NO.	Easting	Northing	Sl NO.	Easting	Northing
1	724192.096	2064174.989	51	723987.713	2064167.474	101	723883.932	2064181.611	151	720709.477	2065019.629	201	721101.736	2064936.518	251	721488.571	2064777.012	301	721916.988	2064722.494	351	721416.464	2064555.739	401	722423.738	2064615.265
2	724172.636	2064179.606	52	723985.999	2064172.704	102	723887.649	2064164.539	152	720709.222	2065024.641	202	721118.526	2064925.652	252	721494.133	2064778.217	302	721926.174	2064720.182	352	721429.588	2064566.238	402	722423.738	2064617.200
3	724153.176	2064184.223	53	723979.773	2064191.710	103	723891.903	2064144.997	153	720724.551	2065024.33	203	721131.317	2064917.375	253	721513.680	2064782.451	303	721936.483	2064718.051	353	721445.206	2064578.731	403	722404.921	2064620.803
4	724133.716	2064188.840	54	723973.546	2064210.716	104	723894.456	2064133.272	154	720744.547	2065023.924	204	721136.082	2064917.343	254	721516.932	2064783.156	304	721956.069	2064714.004	354	721453.288	2064585.196	404	722385.278	2064624.565
5	724119.543	2064192.203	55	723971.928	2064215.655	105	723893.061	2064125.395	155	720747.141	2065023.872	205	721144.737	2064917.285	255	721532.064	2064793.199	305	721961.382	2064712.906	355	721460.429	2064591.687	405	722376.930	2064626.163
6	724114.419	2064194.049	56	723969.417	2064215.057	106	723891.557	2064116.906	156	720764.451	2065022.058	206	721156.368	2064916.152	256	721546.661	2064804.582	306	721972.477	2064708.139	356	721475.230	2064605.139	406	722377.215	2064628.048
7	724095.556	2064200.657	57	723971.058	2064202.946	107	723890.113	2064116.752	157	720784.343	2065019.975	207	721173.359	2064912.175	257	721552.970	2064809.502	307	721994.833	2064705.606	357	721490.030	2064618.591	407	722386.803	2064628.893
8	724076.694	2064207.306	58	723973.246	2064186.802	108	723886.351	2064125.939	158	720788.991	2065019.488	208	721175.125	2064910.850	258	721554.990	2064812.141	308	722010.891	2064703.787	358	721497.355	2064625.249	408	722404.125	2064629.014
9	724059.666	2064213.307	59	723972.764	2064183.125	109	723878.772	2064144.448	159	720804.290	2065018.572	209	721187.936	2064901.238	259	721559.505	2064820.610	309	722014.721	2064703.517	359	721504.215	2064632.663	409	722404.196	2064631.075
10	724059.339	2064215.226	60	723970.163	2064163.295	110	723871.193	2064162.956	160	720815.450	2065017.904	210	721191.353	2064899.190	260	721564.825	2064825.657	310	722034.671	2064702.109	360	721517.797	2064647.344	410	722384.345	2064636.596
11	724055.974	2064234.941	61	723969.692	2064159.710	111	723868.778	2064168.852	161	720824.260	2065018.308	211	721203.947	2064891.642	261	721569.390	2064836.479	311	722054.622	2064700.700	361	721531.379	2064662.025	411	722365.077	2064641.955
12	724052.609	2064254.655	62	723967.938	2064159.750	112	723866.277	2064168.100	162	720831.315	2065018.633	212	721205.536	2064895.146	262	721577.164	2064854.907	312	722065.181	2064699.955	362	721537.312	2064668.438	412	722355.822	2064644.530
13	724052.133	2064257.444	63	723965.450	2064174.167	113	723868.696	2064157.353	163	720844.056	2062050.881	213	721214.300	2064891.635	263	721581.722	2064865.713	313	722074.449	2064698.298	363	721537.092	2064669.412	413	722356.000	2064646.503
14	724049.193	2064257.342	64	723962.049	2064193.876	114	723873.090	2064137.841	164	720846.578	2065021.326	214	721216.039	2064896.366	264	721590.667	2064868.068	314	722094.136	2064694.778	364	721526.916	2064670.763	414	722364.277	2064648.003
15	724048.129	2064243.152	65	723961.414	2064197.558	115	723874.925	2064129.692	165	720863.998	2065022.151	215	721222.372	2064893.412	265	721593.646	2064872.935	315	722113.824	2064691.258	365	721507.090	2064673.394	415	722383.957	2064651.571
16	724047.172	2064230.396	66	723950.079	2064210.605	116	723874.355	2064118.060	166	720868.183	2065022.349	216	721228.022	2064890.777	266	721599.452	2064885.906	316	722127.665	2064688.783	366	721487.264	2064676.026	416	722403.636	2064655.138
17	724049.466	2064223.563	67	723952.190	2064211.680	117	723874.072	2064112.284	167	720882.429	2065020.411	217	721232.525	2064887.491	267	721606.275	2064891.362	317	722133.296	2064690.674	367	721477.299	2064677.348	417	722407.875	2064655.907
18	724055.829	2064204.602	68	723951.321	2064193.623	118	723872.289	2064112.167	168	720888.917	2065021.662	218	721240.273	2064884.834	268	721615.210	2064894.970	318	722149.192	2064696.011	368	721470.046	2064684.156	418	722407.840	2064658.133
19	724058.067	2064197.933	69	723951.889	2064185.853	119	723867.274	2064123.542	169	720896.983	2065026.004	219	721245.084	2064883.184	269	721624.622	2064894.690	319	722152.358	2064696.660	369	721455.463	2064697.843	419	722394.775	2064661.393
20	724056.122	2064197.071	70	723950.943	2064173.680	120	723859.206	2064141.842	170	720902.432	2065027.553	220	721247.009	2064879.310	270	721631.699	2064893.328	320	722171.950	2064700.678	370	721440.880	2064711.531	420	722375.370	2064666.236
21	724049.724	2064205.818	71	723949.393	2064153.740	121	723851.138	2064160.142	171	720921.962	2065033.105	221	721253.049	2064870.614	271	721635.479	2064883.717	321	722191.543	2064704.695	371	721433.355	2064718.594	421	722355.965	2064671.079
22	724040.984	2064217.769	72	723948.850	2064146.758	122	723850.183	2064162.307	172	720928.053	2065039.080	222	721261.460	2064854.188	272	721655.878	2064883.875	322	722211.135	2064708.712	372	721427.192	2064726.058	422	722353.790	2064671.622
23	724039.701	2064222.802	73	723947.180	2064146.480	123	723848.209	2064161.727	173	720938.541	2065045.325	223	721269.089	2064847.524	273	721672.276	2064876.034	323	722230.727	2064712.730	373	721414.458	2064741.480	423	722337.018	2064677.456
24	724034.760	2064242.183	74	723942.946	2064156.961	124	723850.901	2064146.385	174	720940.291	2065045.330	224	721270.788	2064848.369	274	721690.675	2064868.192	324	722250.320	2064716.747	374	721401.724	2064756.902	424	722318.128	2064684.026
25	724032.748	2064250.074	75	723935.455	2064175.505	125	723854.356	2064126.686	175	720950.098	2065031.588	225	721267.271	2064857.718	275	721709.074	2064860.351	325	722269.912	2064720.765	375	721388.990	2064772.324	425	722306.717	2064687.994
26	724030.828	2064249.645	76	723930.980	2064186.583	126	723855.246	2064121.616	176	720956.043	2065024.505	226	721266.356	2064860.152	276	721727.472	2064852.509	326	722272.791	2064721.355	376	721379.047	2064784.365	426	722307.035	2064689.371
27	724031.865	2064239.811	77	723928.957	2064186.068	127	723856.414	2064109.780	177	720961.692	2065020.941	227	721268.087	2064861.307	277	721742.944	2064845.915	327	722289.712	2064723.536	377	722418.483	2064551.893	427	722313.541	2064689.500
28	724033.962	2064219.921	78	723930.001	2064180.195	128	723855.141	2064099.413	178	720966.059	2065020.426	228	721278.246	2064849.842	278	721745.116	2064843.590	328	722310.743	2064726.245	378	722400.101	2064559.772	428	722333.537	2064689.898
29	724034.409	2064215.687	79	723931.315	2064172.800	129	723853.263	2064099.403	179	720969.123	2065020.065	229	721288.404	2064838.378	279	721758.765	2064828.972	329	722329.532	2064726.713	379	722381.719	2064567.652	429	722355.024	2064690.327
30	724036.812	2064208.202	80	723930.672	2064160.327	130	723850.393	2064109.644	180	720982.259	2065014.725	230	721292.186	2064835.615	280	721772.415	2064814.354	330	722349.526	2064727.210	380	722376.464	2064569.904	430	722355.179	2064692.119
31	724035.498	2064207.457	81	723929.643	2064140.354	131	723847.341	2064120.536	181	720984.265	2065012.866	231	721308.335	2064823.817	281	721777.312	2064809.110	331	722362.147	2064727.524	381	722377.267	2064571.626	431	722339.368	2064697.451
32	724032.034	2064212.801	82	723929.349	2064134.667	132	723844.170	2064128.626	182	720995.775	2065002.198	232	721324.485	2064812.019	282	721785.194	2064798.993	332	722365.662	2064734.008	382	722389.637	2064571.038	432	722320.417	2064703.842
33	724021.156	2064229.585	83	723927.525	2064134.548	133	723842.693	2064132.393	183	720999.439	2064999.934	233	721337.706	2064802.360	283	721788.533	2064794.708	333	722372.404	2064746.441	383	722409.614	2064570.090	433	722315.973	2064705.341
34	724011.642	2064244.265	84	723922.771	2064146.084	134	723231.667	2064774.888	184	721004.297	2064996.931	234	721340.981	2064800.803	284	721795.795	2064784.707	334	722377.740	2064748.855	384	722417.131	2064569.734	434	722316.429	2064707.128
35	724009.537	2064243.017	85	723915.150	2064164.575	135	722447.825	2064786.675	185	721008.538	2064993.333	235	721359.043	2064792.215	285	721797.362	2064783.151	335	722395.962	2064757.098	385	722417.476	2064571.799	435	722329.887	2064707.590
36	724011.863	2064227.943	86	723907.862	2064182.260	136	722463.982	2064798.462	186	721010.582	2064992.880	236	721378.215	2064783.100	286	721801.870	2064778.678	336	722414.185	2064765.341	386	722407.708	2064575.314	436	722349.876	2064708.275
37	724013.026	2064223.340	87	723904.981	2064187.235	137	722474.147	2064805.876	187	721014.900	2064993.025	237	721379.047	2064784.365	287	721801.791	2064775.299	337	722424.733	2064770.113	387	722388.889	2064582.085	437	722357.192	2064708.526
38	724017.925	2064203.949	88	723902.647	2064186.523	138	722481.232	2064808.076	188	721016.218	2064991.124	238	721367.713	2064797.378	288	721796.750	2064766.352	338	722428.045	2064772.246	388	722369.516	2064589.056	438	722357.304	2064709.996
39	724022.824	2064184.558	89	723905.626	2064174.195	139	722500.332	2064814.007	189	721024.296	2064979.473	239	721354.578	2064812.460	289	721793.735	2064761.000	339	722383.505	2064499.533	389	722369.853	2064590.512	439	722346.846	2064714.019
40	724024.043	2064179.733	90	723909.292	2064159.021	140	722514.276	2064818.337	190	721029.131	2064976.229	240	721350.426	2064817.228	290	721794.367	2064756.205	340	722400.448	2064510.160	390	722387.767	2064590.714	440	722328.180	2064721.200
41	724022.606	2064179.374	91	723909.930	2064154.678	141	722516.705	2064823.159	191	721045.739	2064965.086	241	721351.477	2064818.800	291	721798.140	2064757.935	341	721417.392	2064520.787	391	722407.766	2064590.940	441	722318.846	2064724.791
42	724015.130	2064190.665	92	723912.528	2064137.006	142	722525.700	2064958.733	192	721055.207	2064958.733	242	721362.474	2064814.562	292	721805.280	2064758.929	342	721420.947	2064523.017	392	722421.528	2064591.095			
43	724004.089	2064207.341	93	723912.204	2064134.893	143	722534.696	2064858.884	193	721056.601	2064959.976	243	721381.136	2064807.370	293	721817.976	2064760.696	343	721433.022	2064533.212	393	722421.802	2064593.106			
44	723993.048	2064224.018	94	723910.325	2064122.673	144	722543.692	2064876.747	194	721053.159	2064965.759	244	721399.799	2064800.178	294	721823.488	2064759.639	344	721448.303	2064546.114	394	722417.807	2064594.426			
45	723988.634	2064230.684	95	723908.765	2064122.569	145	722552.688	2064894.610	195	721047.310	2064975.586	245	721418.461	2064792.986	295	721841.486	2064747.752	345	721463.585	2064559.017	395	722398.817	2064600.699			
46	723986.478	2064229.846	96	723907.317	2064128.467	146	720686.15	2065012.067	196	721048.751	2064976.843	246	721437.123	2064785.793	296	721848.421	2064743.171	346	721469.185	2064563.745	396	722379.826	2064606.973			
47	723987.989	2064220.273	97	723902.547	2064147.890	147	720705.847	2065013.479	197	721053.825	2064977.541	247	721442.728	2064783.633	297	721859.455	2064739.314	347	721468.644	2064565.147	397	722373.377	2064609.103			
48	723991.070	2064200.756	98	723897.506	2064167.240	148	720705.923	2065014.584	198	721070.109	2064958.734	248	721454.619	2064775.722	298	721878.334	2064732.154	348	721457.718	2064562.831	398	722373.719	2064610.984			
49	723989.994	2064180.543	99	723894.578	2064177.093	149	720699.394	2065016.958	199	721085.328	2064947.953	249	721469.794	2064775.454	299	721883.336	2064730.966	349	721438.153	2064558.684	399	722384.974	2064611.947			
50	723989.310	2064167.674	100	723885.923	2064182.349	150	720699.471	2065018.75	200	721100.444	2064937.354	250	721474.312	2064775.828	300	721897.593	2064727.377	350	721417.068	2064554.215	400	722404.901	2064613.653			

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